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SUBJECT	Factory for Calculating, Analytical, and Tynewriting Machines No. 828.at Moscow.	NO. OF PAGES 6
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I. The Moscow Factory for Calculating, Analytical, and Typewriting Machines No. 828 (Moskevski Zavod Schetno-Analiticheskikh i Pishushchikh Mashin No. 828, abbreviated SAM) is located at 25 Ulitsa Baumana, Baumanovski Raion, Moscow. In the neighboring street, 35 Mizhnyzya Krasmoselskaya Ulitsa is the entrance to some of the administrative sections, the technical section, and the planning section of the factory.

Control

- 2. At the present time the factory belongs to the Ministry for Machine and Instrument Construction of USSR (Mashpribor), located at 3 Teatrelny Prospekt, Moscow, and is directly subordinate to the Chief Directorate of Polygraphic and Calculating and Analytical Promine Construction, abbreviated Claypoligrafusch.
- 3. This Chief Directorate is located apart from the Ministry at 8 Maprudny Perculok near the Baltiiski railway station. In the same building are two more Chief Directorates of the same inistry, Food Machinery Construction (Fredovolstvennoye Mashinostroyeniye, abbreviated Glavprodmash) and Papersaking and Woodworking Machinery Construction (Buragodelatelnoye i Dores wookmahatyvayushoneye Mashinostroyeniya, abbreviated Glavbradrevmash).

History

4. The factory was established in 1935 and at that time was called Factory
No 1 for Calculating and Analytical Machines of the All-Union Association
of the Precision Industry (Vsesoyumei Obedinemys Tochnoi Industri, abbreviated VOTI). The first director was I. E. Yuzhny. Production was gradually
organized, and before the war the factory was producing complex machines of
several types including T-4M tabulators, electro-magnetic numches of two
types, electro-magnetic control devices, and calculating and recording
machines. The factory mark on all articles produced was SAM (SchetnoAnaliticheskiye Mashiny).

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- 5. When the war started, the factory stopped this production (during the war oroduction of all calculating machines was completely stopped at all factories) and began to produce for defense. At that time the director was N. L. Nezimov.
- t. The factory received the designation Factory No. 828 of the People's Commissariat for Nortar Amment and started production of Shpajin machine carbines, abbreviated PPSh, and known by troops at the front as Avtomat. Weight of this machine carbine was about 3.5 kgr. without magazine; weight of magazine without cartridges: 1.1 kgr. Production was quickly organized and was gradually mechanized. Assembly lines were installed, and the machine carbines were mass-produced. Machanization enabled newly-angaged young workers to master the comparatively simple production enable; there are only about 80 different parts in the machine carbines. The machine carbines were the cold of the factory many.
- 7. The Ministry for Armaments on several occasions preised the good work of the factory, and at the end of the war the factory was awarded the Order of the Patriotic War lat Class. Since then the name of the factory has been preceded by the words Order of the Patriotic War First Class.
- 8. From the end of the war until 1946, while the Covernment was working out a peacetime program, the factory was in a transitional state. During this period various articles, mainly for agriculture, and consumer goods, including large numbers of locks and padlocks, were produced.
- 9. The program for the factory was ready in August 1945. The production planned for the first two years of the post-war Five Year Plan differed entirely from the pre-war production. According to this program the factory was to produce:
 - a. Calculating machines (Arifmometr), which had not previously been produced by the factory. Just before the war the factory planned to start production of calculating machines and had even assembled 700 such machines from finished parts obtained from the Moscov factory i/n Dzernhinski, which produced calculating machines. The outbreak of war, however, stopped the preparations for this production.
 - b. Typewriters, which had not previously been produced by the factory,
 - c. Small machine tools of great precision for the clock industry, also not previously produced.
 - d. Spare parts for agricultural machinery and consumer goods.
- 10. According to the program, the output of calculating machines was to be on a large scale by the end of 1945, and the production of typewriters was to start in the middle of 1946. But owing to the shortage of specialist engineers, foremen, workers, and special equipment, including special tools, large numbers of dies, and appliances, it was found difficult to carry out this program. For this reason, production of all these articles was greatly delayed. Preparations for the production of typewriters were protracted for nearly a year beyond the date planned, and actual production began only in April 1947.
- 11. At that time the factory was called Factory for Calculating Machines and Typewriters. Since the middle of 1949, however, the factory has been called Factory for Calculating, Analytical, and Typewriting Machines.
- 12. In 1949 the factory began to produce nunches (Verforator) and a little later other machines for mechanized accounting stations (Stantslya Makhanizirovannogo Ucheta).

Type of Article Produced

Calculators

13. The calculating machine (Arifocuetr produced is the Feliks of lever type (rychezhny tip) for multiplication and division in calculations of small volume. It is a fairly shade machine with about 860 parts. Before the

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war Feliks calculating machines were produced on a large scale by the Calculating Machine Factory 1/n Dzerzhinski, 22 Sushchevskaya Ulitsa Roscow, which also produced other calculating machines and various machines devices (schetchik).

14. In 1949 the factory produced an experimental series of modernized Feliks lever calculating machines and in February 1950 started regular production of the machines. Engineer-designer A. I. Whokhlov was responsible for the modernization. This modernized type can multiply and divide nine-figure numbers by nine-figure numbers and obtain a result of which nine figures are correct and the remainder according to the general rules of approximate calculations. The machine embodies certain improvements which simplify its operation.

Machine Tools for the Clock and Watch Industry

15. Production started in 1946. The first machine tools made were of the S-79 type for boring jaw clutches (rastochka kulachkovol mufty) for Pobeda clocks. Machine tools of about 15 types (types S-2, S-9, S-27, S-38, S-44, etc.) were produced. This was the first time that these miniature machine tools for the clock industry were produced in the USSR. Formerly they had to be more chased in Switzerland. The machine tools produced are of small size and great precision, and each tool has its own small electric motor. Automatic screwcutting lathes, combined milling machines, and boring lathes are also produced.

Typewriters

- 16. The first typewriters were produced in April 1947 and were of the ordinary Moskva type, with large carriage and two-color wibbon. Number of parts were about 2,560.
- 17. At the beginning of 1949 production was started of typewriters with Russian and Letin characters. A large number of parts of this machine are identical with those of the standard Moskva type.
- 18. In the middle of 1950 the first experimental Stenograf machines were produced.
- 19. Portable Moskva typewriters with smell carriage are produced by another Moscow factory, of Local Industry. The director is Nusinov (fnu).

Tabulators and Other Calculating and Avalytical Machines

- 20. The factory started to produce tabulators of the T-4M type, which had been produced before the war, at the end of 1948 when serial production began.
- 21. In the middle of 1949 production started of modernized 45-column tabulators with a device for punching the total. This type was designated T-4 M I. It has about 56,000 parts of 1,750 different names. It weighs about 700kg.
- 22. In 1949 punches of two types were produced in series:
 - a. Total one-stage (Itogovy Odnoperiodny) munch of type PI45-1 ("erforator Itogovy 45-Kolonny).
 - b. Two-stage nunch of type PD 45-1 (Perforator Dwukhoeriodny 45-Kolonny).
- 23. In the middle of 1950 the factory began to prepare for the production of more complicated calculating and analytical machines, designed and developed by designers of the Mischetmash (Nauchno-Issledovatelski Institut Schetnykh 1 Natematicheskikh Nashin Scientific Research Institute for Calculating and Nathematical Machines). These are 80-column machines.
 - a. The T SO-1 tabulator has already been built at the factory and has passed complete tests. It is intended for operations with punched cards (cards with holes in which the holes correspond to various figures according to a special system) and is an electromechanical automatic calculating machine. By means of special adjustment it can add, subtract, and give the result of the total of cards. In an average of one minute it

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95 kgs. 1. 110 50X1

cum produce the totals of 140 punched cards. Weight: about 795 kgs. Dimensions: length - 1380 mm; width - 810 mm; height - 1360 mm. 110 volt de motor with 850 ppm and 175 volt motor with 1,750 rpm. About 50 percent of the parts of the T 80-1 tabulator are identical with those of the T-4 M I.

- b. Punches are to be produced of the P 80-2 type for the preparation of punched cards by punching holes in corresponding places. The magazine for the cards takes about 450 cards. Weight of P 80-2: 155 kgs.
 Dimensions: Length 980 mm; width 450 mm; height 840 mm. Ac motor.
- c. It is possible that the factory will also produce control apparatus (Kontrolnik) of the K 80-1 type for the control of punches, weight: about 16 kgs, and a sorter (Sortirovka) of the S 80-1 type for sorting punched cards into groups, weight: about 400 kgs; length: 1,450 kg; width: 450 kg; height: 1,150 kg.

Consumer Goods

- 24. Production started at the end of 1945. From that time until now the principal constant production of consumer goods has been padlocks of Zenir type and internal door locks of Moskva type.
- 25. Other consumer goods are also produced but in comparatively small numbers. A fairly large number of parts for agricultural machinery are produced; sometimes there are orders for 100,000 parts.

Special Machine Tools for the Factory's Oam Use

26. Every year the factory produces a small number of special machine tools for its own use in the machine shop.

Outout

27. Calculating Machines: The first calculating machines were produced in January 1946. Output for the first half-year was as follows:

January	1946	600
February	গ	800
March	f7	1,000
April	15	1,400
May	Ħ	1,400
June	त	1,800
•		7.000

Total Output

1946:	about	18,000
1947:	2 vod 8	26,000
1948:	about	32,000
1949:	about.	43,000
1950:	i noda	48 - 50,000 will be produced.

28. Machine Tools for the Clock and Watch Industry: The production of machine tools for the clock and watch industry was as follows:

1946: about 100 tools of various types 1947: slightly more than 100 tools 1948: about 120 tools 1949: about 130 tools 1950: about 145-150 will be produced,

29. Typewriters: Production started in April 1947 with an output of 32 typewriters; in May output was 94 and in June, 130.

Total Cutout

1947: about 2,000 1948: about 8,000 1949: about 13,000 1950: about 17 - 18,000 (estimated)

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30. Tabulators: Output was as follows:

Tabulators in 1949: 115
Total one-stage punch machines in 1949: 22
Two-stage punch machines in 1949: 46

- 31. Consumer Goods: In 1946 monthly output was about 7,000 locks. Later on output slightly increased and at present is 10-11,000 locks per month.
- 32. Special Machine Tools for Factory's Own Use: In 1949 about 26 machine tools were produced for the factory's own use. In 1950 about 30 such tools will be produced.

Personnel

- 33. Some of the chief personnel are:
 - a. Director: Lesechko, M. A., who replaced Khremov at the end of 1948.
 - b. Chief Engineer: Vorobiyev, A.
 - c. Chief Technologist: Margulis, A.
- 34. About 2,800 people are employed in two shifts of eight hours each. There is a third (night) shift, with a small number of employees for the maintenance of equipment and the preparation of materials and tools for the morning shift.

35. Installations

- a. Typewriter Shop, the largest shop of the factory. Chief: Gavrilov. The shop has been swarded the title of Stakhanov Shop.
- b. Calculating Machine Shop (Tsekh Arifmometrov). Chief: Kremenskov. Awarded title of Stakhanov. In the first half of 1946 this shop was already working satisfactorily with two conveyer belts and 160 units of new equipment. 380 men underwent special training for the production of calculating machines. At the present time the shop has 235 machine tools and other units of equipment.
- c. Tabulator Shop (Tsekh Tabulyatorov). Chief: Fedotov. Shop awarded title of Stakhanov. In the middle of 1947 the Glavnolig rafmash of the Mashoribor Ministry ordered the factory to start organizing shops for the production of calculating and analytical machines. In 1948 a shop was organized, and the factory executed several orders for the repair of tabulators.
- d. Machine Tool Construction Shop. Chief: Vdovenkov. Shop awarded title Stakhanov. Shop for the production of machine tools for the clock and watch industry.
- e. Consumer Goods Shop. Chief: Gorelkin. Shop awarded title Stakhanov. Superficial area: about 300 sq m. Equipped with 32 machine tools.
- f. Machine and Assembly Shop (Mekhano-Sborochny Tsekh). Chief: Bereslavski.
- g. Automatic Turret Lethe Shop.
- h. Press Shop.
- i. Tool Shop.
- j. Electroplating Shop.
- k. Vernish Shop.
- 1. Thermic Shop.
- m. Machine-Repair Shop (Remontro-Mekhanichesky Tsekh).
- n. Stamping Shop.

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- o. Foundry Shop. Established in 1948. Until then castings had been received from the Klimovsk Textile Machinery Factory and the Podolsk Engineering Works i/n Kalinin. At the present time many parts are produced by die casting (litive od davleniyem). The equipment (Machine 511) came from the Krasnaya Presnya Works.
- p. Three laboratories.

Miscellaneous

- It is probable that the whole factory will shortly be awarded the title of Stakhanov Factory.
- 37. The factory newspaper is Krasnaya Znamya.
- 33. Stakhanov courses have been opened at six different shops for the training of workers in Stakhanov methods of work.
- 39. In August 1950 12 specialists (three engineers, foremen, and specialist workmen) from the Podolsk Engineering Works 1/n Kalinin visited the SAM Factory to study the production of typewriters, as it is planned that the Podolsk Engineering Works should start production of typewriters at the beginning of 1951 in addition to its present production. The Podolsk Works is already partly acquainted with typewriter production, as for several years after the war it supplied castings for typewriters to the SAM Factory.